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L6	445	703/2.ccls. and @pd>="20080201"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 06:48
L7	23	(flow adj induced adj crystall\$7)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:40
L8	1	(flow adj induced adj crystal\$7)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:45
L9	2	(flow adj induced adj crystall\$7) and (free adj energy)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:46
L10	17	fic and (free adj energy)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:47


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R Busto, MY Globus, WD Dietrich, E Martinez, I ... - Stroke, 1989 - Am Heart Assoc
 ... does not have an effect on the magnitude of **flow** reduction induced by 20 ... Cortical and striatal **free** fatty acid levels of the different experimental ...
 Cited by 611 - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

Dynamic coupling between stress and composition in polymer - ► [inria.fr](#) [PDF]

M Doi, A Onuki - J. Phys. II France, 1992 - edpsciences.org
 ... minimizing the **free energy** in nonequilibrium states [3, 4]. Page 2. 1632 JOURNAL DE PHYSIQUE II N°8 Experimental studies of the **flow-induced** polymer migration ...
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Extensional **flow induced** miscibility in a polymer blend

JD Katsaros, MF Malone, HH Winter - Polymer Bulletin, 1986 - Springer
 ... A thermodynamic approach has been used to interpret **flow induced** phase transitions in ... "**free energy**" elevation of dilute solutions in a **flow** field based on ...
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[CITATION] Mechanisms of **flow induced** crystallization

AJ McHugh - Polymer Engineering and Science, 1982
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A continuum model for **flow-induced** crystallization of polymer melts

AK Doufas, IS Dairanieh, AJ McHugh - Journal of Rheology, 1999 - link.aip.org
 ... **Flow-induced** crystallization (FIC) is an important phenomenon in ... growth habits that occur under **flow** orientation, quantitative ... in the bulk **free energy** term of ...
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Flow-induced mixing, demixing, and phase transitions in polymeric fluids

RG Larson - Rheologica Acta, 1992 - Springer
 ... in cone-and-plate **flow**, we need an expression for the **free energy** density f ... Larson, **Flow-induced** mixing, demixing, and phase transitions in polymeric fluids 503 ...
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[CITATION] **Flow-induced** crystallization of linear polyethylene above its normal melting point

V Tan, CG Gogos - Polymer Engineering and Science, 1976
 Cited by 21 - [Related articles](#) - [Web Search](#)

[CITATION] Microrheological Modeling of **Flow-Induced** Crystallization

S Coppola, N Grizzuti, PL Maffettone - MACROMOLECULES, 2001 - ACS AMERICAN CHEMICAL SOCIETY
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Modeling of the rheology and **flow-induced** concentration changes in polymer solutions

VG Mavrantzas, AN Beris - Physical Review Letters, 1992 - APS
 ... in an effort to describe stress-induced con- centration [4 ... the Euler equations for ideal fluid **flow** in a ... M pu, and a general internal **free-energy** density, $h_e(\pi)$...


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A continuum model for **flow-induced** crystallization of polymer melts

AK Doufas, IS Dairanieh, AJ McHugh - Journal of Rheology, 1999 - link.aip.org

... **Flow-induced** crystallization (**FIC**) is an important phenomenon in ... growth habits that occur under **flow** orientation, quantitative ... in the bulk **free energy** term of ...

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A continuum model for the dynamics of **flow-induced** crystallization

AC Bushman, AJ McHugh - Journal of Polymer Science Part B Polymer Physics, 1996 - doi.wiley.com

... allows comparison to published data for **flow-in-** duced ... **STRAIN-INDUCED** CRYSTALLIZATION
 Several authors have derived **free-energy** expressions for the quiescent ...

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... between kinetics and rheological parameters in the **flow-induced** crystallization of thermoplastic ...

S Acierno, S Coppola, N Grizzuti, PL Maffettone - MACROMOLECULAR SYMPOSIA, 2002 - doi.wiley.com

... modeling of the **FIC**. Within this framework, dumbbell-like models have been initially used to calculate a **flow-induced** change in the **free energy** of the ...

Cited by 9 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 2 versions](#)

Simulation of melt spinning including **flow-induced** crystallization Part I. Model development and ...

AK Doufas, AJ McHugh, C Miller - Journal of Non-Newtonian Fluid Mechanics, 2000 - Elsevier

... is based on Flory's strain-**induced** crystallization model ... complex boundary conditions (air drag, **free** surface, heat ... Thus the fiber **flow** can be modeled with a 1 ...

Cited by 61 - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

Effect of molecular weight on the **flow-induced** crystallization of isotactic poly (1-butene)

S Acierno, B Palomba, HH Winter, N Grizzuti - Rheologica Acta, 2003 - Springer

... **Flow-Induced** Crystallization (**FIC**) is the common term used to indicate ... of the melt **free energy**. ... of high MW chains should enhance the **flow-induced** nucle- ation ...

Cited by 27 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 3 versions](#)

A model for post-**flow induced** crystallization: General equations and predictions

R Zheng, PK Kennedy - Journal of Rheology, 2004 - link.aip.org

... The phenomenon is usually called **flow-induced** crystallization (**FIC** ... explains the exact driving force for **FIC** and how ... phase is in a lower **free energy** state than ...

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Effects of the degree of undercooling on **flow induced** crystallization in polymer melts

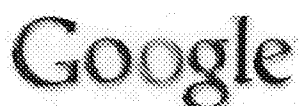
S Coppola, L Balzano, E Gioffredi, PL Maffettone, ... - Polymer, 2004 - Elsevier

... One of the first models of **FIC** was proposed by McHugh [15]. ... In particular the **free energy** jump included a **flow-induced** term, which was calculated by ...

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Effects of the degree of undercooling on flow induced ...

often referred to as **flow-induced** crystallization (**FIC**). be concluded that also the **flow-induced free energy** term is ...

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by S Coppola - 2004 - Cited by 8 - Related articles - All 4 versions

Polymer Testing : Influence of flow on the global crystallization ...

In most polymer **flow induced** crystallization (**FIC**) experiments, ... where ΔG is the **free energy** change of the melt and ΔG_f is the **flow-induced free energy** ...

linkinghub.elsevier.com/retrieve/pii/S0142941806000304 - Similar pages

by A Godara - 2006 - Related articles

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usually know as **Flow-Induced** Crystallization (**FIC**). It is generally accepted that the main action of the ... conditions the **flow-induced excess free energy** ...

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Flow-induced crystallization of polymer: theory and experiments

polydisperse systems under **flow** conditions. Theoretical predictive models for **FIC** usually rely ... conditions the **flow-induced excess free energy** ...

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Microrheological modeling of flow-induced crystallization

The problem of **flow-induced** crystallization (**FIC**) of polymer melts is addressed ... (DE-IAA) is used to calculate the **flow-induced** change of **free energy**. ...

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Coupling between kinetics and rheological parameters in the flow ...

Flow Induced Crystallization (**FIC**) is the common term to indicate the ... which acts on both the polymer relaxation time and the **free energy** jump between ...

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A continuum model for the dynamics of flow-induced crystallization

Flow-induced crystallization (**FIC**) plays a central. role in polymer processing.

expression for the Helmholtz **free energy**.. **Mixed Flow** Kinematics ...

doi.wiley.com/10.1002/(SICI)1099-0488(199610)34:14%3C2393::AID-POLB9%3E3.3.CO;2-

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Crystallization in Mixed Shear/Extensional Flows

the **FIC**. Within this framework, dumbbell-like models have been initially used to calculate a. **flow-induced** change in the **free energy** of the amorphous phase; ...

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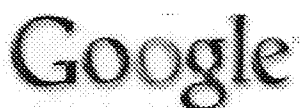
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Crystalline spherulitic growth kinetics during shear for linear ...

This means that the **flow-induced** change of **free energy** decreases as the ... the best explanation for **FIC** behavior during the crystallization growth step. ...

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CiteULike: Flow-induced nonequilibrium thermodynamics of lamellar ...

Apr 23, 2007 ... The values for the derivative of the **free energy** with respect to the mean segment ... Significant **flow-induced** changes are calculated, ...
www.citeulike.org/user/takamujp/article/1244654 - 28k - Cached - Similar pages

Flow-induced phase separation in polymer solutions

The effect of **flow-induced** chain deformation on the polymer-solvent interaction **energy** ...
This results in the following simple form for the **free energy**: ...
www.iop.org/EJ/article/0295-5075/42/4/407/42410.html - Similar pages
by K de Moel - 1998 - Cited by 1 - Related articles - All 17 versions

Flow-induced nonequilibrium thermodynamics of lamellar ...

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by J MUKHERJEE - 2004 - Cited by 1 - Related articles - All 2 versions

Flow-induced Crystallization in Polymer Systems - Google Books Result

by Robert L. Miller - 1979 - Science - 370 pages
The **free energy** of formation of the critical size nucleus includes an additional ... While the hydrodynamics of **flow-induced** crystallizations are not well ...
books.google.com/books?isbn=0677125402...

Flow-induced crystallization of polymer: theory and experiments

using the so-called Independent Alignment. Approximation (IAA) approximation. In this. conditions the **flow-induced** excess **free energy** ...
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is the quiescent **free energy** change at the crystallization temperature and DG. f. the **flow-induced free energy** change of the melt phase. ...
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A continuum model for the dynamics of flow-induced crystallization

Helmholtz **Free Energy**: Crystallizing System. Our physical model for **flow-induced** crystallization. is closely related to that of Gaylord and Lohse2'V2* ...
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values of the possible set of transformation strains and plastic **flow** in the martensitic state. Beside the. chemical part of the **free energy**, ...
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An Investigation of Shear-Induced Mixing in the PSAN/PMMA Blend ...

To explain these phenomena, it was proposed [3, 4] that the **free energy** ... that **flow-induced** mixing can, too, be predicted using the stored **energy** concept. ...
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